

Solar & Photovoltaic products



Products

Common meteorological fields: temperature, humidity, precipitation, wind, pressure.

Total irradiance values: GHI, DNI, DHI

Science

Specifically for solar irradiance, in-house post-processing algorithms and neural networks allow a site-specific training with on-site or satellite observations. Estimation of diffuse and direct component of solar irradiance, such as DNI and DHI, permits to have the forecast on all inclined surfaces.

Technical Details:

- Hourly or sub-hourly time steps
- From 24 hours ahead up to 2 weeks
- 4 daily updates or more
- Real-time correction with on-site or satellite observations
- Confidence intervals such as 10 and 90 percentiles

For grid operators and TSOs:

- Instantaneous power grid values
- Hourly and sub-hourly energy production
- Daily estimated energy production forecast
- Mean seasonal and annual production values
- Ramp rate
- Aggregated values on regional scales
- Real-time monitoring through dedicated web portal

